

**NORTH CAROLINA DIVISION OF  
AIR QUALITY**

Inspection Report  
Date: 05/10/2012

Fayetteville Regional Office  
Sampson County Leachate Management Facility  
NC Facility ID 8200150  
County/FIPS: Sampson/163

<p align="center"><b>Facility Data</b></p> <p>Sampson County Leachate Management Facility 7434 Roseboro Highway Roseboro, NC 28382 Lat: 34d 57.7022m Long: 78d 26.3841m SIC: 4953 / Refuse Systems NAICS: 562212 / Solid Waste Landfill</p>			<p align="center"><b>Compliance Data</b></p> <p>Inspection Date 05/09/2012 Inspector's Name Mitch Revels Operating Status Operating Compliance Code Compliance - inspection Action Code FCE On-Site Inspection Result Compliance</p>			
<p align="center"><b>Contact Data</b></p> <table border="1"> <tr> <td> <p align="center"><b>Facility Contact</b></p> <p>Patrick Woodhull Project Manager (419) 425-6175</p> </td> <td> <p align="center"><b>Authorized Contact</b></p> <p>Steve Martin VP - Shaw Solid Waste Services (225) 987-7133</p> </td> <td> <p align="center"><b>Technical Contact</b></p> <p>Scott Furlong  (412) 858-3935</p> </td> </tr> </table>			<p align="center"><b>Facility Contact</b></p> <p>Patrick Woodhull Project Manager (419) 425-6175</p>	<p align="center"><b>Authorized Contact</b></p> <p>Steve Martin VP - Shaw Solid Waste Services (225) 987-7133</p>	<p align="center"><b>Technical Contact</b></p> <p>Scott Furlong  (412) 858-3935</p>	<p align="center"><b>Permit Data</b></p> <p>Permit 10212 / R00 Issued 12/20/2011 Expires 11/30/2016 Classification Small Permit Status Active</p>
<p align="center"><b>Facility Contact</b></p> <p>Patrick Woodhull Project Manager (419) 425-6175</p>	<p align="center"><b>Authorized Contact</b></p> <p>Steve Martin VP - Shaw Solid Waste Services (225) 987-7133</p>	<p align="center"><b>Technical Contact</b></p> <p>Scott Furlong  (412) 858-3935</p>				
<p>Inspector's Signature: <i>Mitchell Revels</i></p> <p>Date of Signature: <i>5-15-2012</i> <i>RFW</i></p>			<p>Comments:</p>			

**This facility has no ICE and therefore NESHAP 40 CFR 63, Subpart ZZZZ does not apply.**

**(I) DIRECTIONS:** The Sampson County Leachate Management Facility (06/82-00150) is located at 7434 Roseboro Highway, Roseboro, Sampson County. There are 4 permitted facilities at this address, (Sampson County LF, Sampson County Disposal LF, Black Creek Renewable Energy) all Title V and Sampson County Leachate Management, a small permitted facility. From FRO: Take Grove Street East; it becomes Rt 24 after crossing Rt 301. Go through Roseboro. The landfill entrance is approx 4 miles past Roseboro, on the left. After entering, bear right, this facility is located beside the flare for the Sampson County Landfill. The landfill manager's office is in a brick building on the right past the scale house.

Safety Concerns and Equipment: This facility usually can be inspected without significant safety risk. Therefore the basic safety equipment of safety shoes, eye protection, and hearing protection should be accessible during inspection.

**(II) FACILITY DESCRIPTION:** Sampson County Leachate Management Facility (Leachate), located in Roseboro, Sampson County, has submitted an application for a Greenfield operation servicing Leachate from both the Sampson County landfill (Closed Landfill) [premise 82-00135] and the Sampson County Disposal (Active) [premise 82-00139]. This facility will be installed, owned, and operated by Shaw Environmental & Infrastructure, Inc. (Shaw) and will be installed on the closed portion of the landfill. The Direct Discharge E-Vap Brand Leachate Evaporation System consists of an evaporator and a clarifier. The evaporator will burn Landfill Gas from both landfills. The combustion gases from the evaporator will be used to sparge the leachate to drive off excess water; with the water vapor being discharged to the atmosphere. The evaporator and clarifier combination may reduce the Leachate by as much as 97%. The concentrated residuals will be distributed over the open face of the active landfill or hauled off for disposal. The evaporator will be a permitted source due to the products of combustion. The

clarifier will be insignificant since it has no emissions. The facility will be classified as small for permitting purposes.

**(III) INSPECTION SUMMARY:** On 9 May 2012, Robert Hayden and I, Mitchell Revels visit this facility. The facility is in the construction process. It appeared that a single tank has been installed and another tank in construction. The facility is not yet operational. There were several construction workers on site, however none were interviewed because it appeared that all of them only spoke Spanish.

**(IV) PERMITTED EMISSION SOURCES:**

Emission Source ID	Emission Source Description	Control System ID	Control System Description
LE-1	One Landfill Gas (LFG) fired Leachate Evaporator (16 million Btu/hour maximum heat input)	N/A	N/A

**(V) APPLICABLE AIR QUALITY REGULATIONS:**

**NOTE:** All the applicable regulations listed below were not evaluated during this inspection because the facility is not yet operational; therefore all were determined in compliance.

PARTICULATE CONTROL REQUIREMENT - As required by 15A NCAC 2D .0515 "Particulates from Miscellaneous Industrial Processes,"

SULFUR DIOXIDE CONTROL REQUIREMENT - As required by 15A NCAC 2D .0516 "Sulfur Dioxide Emissions from Combustion Sources,"

VISIBLE EMISSIONS CONTROL REQUIREMENT - As required by 15A NCAC 2D .0521 "Control of Visible Emissions,"

NOTIFICATION REQUIREMENT - As required by 15A NCAC 2D .0535

FUGITIVE DUST CONTROL REQUIREMENT - As required by 15A NCAC 2D .0540 "Particulates from Fugitive Dust Emission Sources,"

TOXIC AIR POLLUTANT EMISSIONS LIMITATION AND REPORTING REQUIREMENT - Pursuant to 15A NCAC 2D .1100 "Control of Toxic Air Pollutants,"

CONTROL AND PROHIBITION OF ODOROUS EMISSIONS - As required by 15A NCAC 2D .1806 "Control and Prohibition of Odorous Emissions"

**(VI) PERMIT EXEMPT EMISSION SOURCES:**

Source	Exemption Regulation	Source of TAPs?	Source of Title V Pollutants?
I-LCT - Leachate Clarifier Tank	2Q .0102 (c)(2)(E)(i)	Yes	Yes

**(VII) PREVENTION OF ACCIDENTAL RELEASES – SECTION 112(r):**

This facility is not subject to 112r.

**(VIII) FIVE YEAR COMPLIANCE HISTORY:**

This facility is a Greenfield in construction, Therefore no compliance issues have occurred in the past five years.

**(IX) CONCLUSIONS / RECOMMENDATIONS:**

(1) Conclusion: At the time of the inspection, the facility is in construction, therefore appeared to be compliance. (2) Recommendations: This facility will be revisit during future visits to the other facility located at this complex.

/mrm

cc: FRO files